

PETROVSKIY, I., akademik.

Palace of science. I. Petrovskii. Tekh.molod. 22 no.1:1-5 Ja '54.
(MLRA 7:1)

1. Rektor Moskovskogo ordena Lenina Gosudarstvennogo universiteta im.
M.V.Lomonosova.

(Moscow University--Buildings)

MARKOV, A.A.; PETROVSKIY, I.G., akademik, redaktor; NIKOL'SKIY, S.M., professor; SAZONOV, L.S., redaktor; ARONS, R.A., tekhnicheskiy redaktor.

Theory of algorithms. Trudy Mat.inst. 42:3-374 '54. (MIRA 8:5)
(Algorism)

PETROVSKY, I.

Academician I. Petrovsky, Director of the Institute of Physics

"Scientists of Moscow University are working to create the first

Soviet design, in April 1954, for the first time.

POSTNIKOV, M.M.; PETROVSKIY, I.G., akademik, redaktor; NIKOL'SKIY, S.M., professor, redaktor; MYKIN, A.Z., redaktor; GRUKOVA, Ye.D., tekhnicheskiiy redaktor

[Investigation on the homotopic theory of continuous mappings. Part 1. Algebraic theory of systems. Part 2. Natural systems and the homotopic type.] Issledovaniya po gomotopicheskoi teorii nepreryvnykh otobrazhenii. I. Algebraicheskaya teoriya sistem. II. Natural'naya sistema i gomotopicheskii tip. Moskva, Izd-vo Akademii nauk SSSR, 1955. 158 p. (Akademiya nauk SSSR. Matematicheskii institut. Trudy, vol. 46) (MLRA 8:9)

(Conformal mapping)

BOLTYANSKIY, V.G.; PETROVSKIY, I.G., akademik, redaktor; NIKOL'SKIY, S.M.,
professor, redaktor; BYVKN, A.Z., redaktor; MOSKVICHEVA, N.I.,
tekhnicheskii redaktor

[Homotopic theory of continuous mappings and vector fields.]
Gomotopicheskaya teoriya nepreryvnykh otobrazhenii i vektor-
nykh polei. Moskva, Izd-vo Akademii nauk SSSR, 1955. 199 p.
(Akademiya nauk SSSR. Matematicheskii institut. Trudy, vol. 47)
(Conformal mapping) (Vector analysis) (MIRA 8:9)

PETROVSKIY, I. G.
~~PETROWSKI, I. G.~~

✓ Vorlesungen über partielle Differentialgleichungen (Lectures on Partial Differential Equations) 1. (1) Lehrstuhl Translated from the Russian by Viktor Jurgel, Leipzig, J. H. Teubner Verlagsgesellschaft, 1935. 2nd pp. 822. DM 17.50. Informant.

This collection of lectures given at the Moscow State University has been translated from the second Russian edition (Moscow, 1962). It deals chiefly with partial differential equations of the second order with one unknown, such as the heat conduction and wave equations, and the Laplace differential equation. The author gives many examples that show the application of these equations to physical problems.

Contents: (1) Introduction, Classification of Equations. (2) Hyperbolic Differential Equations. Cauchy's Problem in the Field of Non-analytic Functions, Oscillations of Plane Bodies. (3) Elliptic Differential Equations. (4) Parabolic Differential Equations. Appendix: The Solution of the First Boundary Value Problem for the Heat Conduction Equation According to the Last of the Point Method, Remarks on the Lastier Point Method.

kill any

PETROVSKIY, IVAN GEORGIEVICH.

Równania różniczkowe cząstkowe. (Ilust. Feliks Baranski. Redaktor: Jacek Szarski). Warszawa, Państwowe Wydawn. Naukowe, 1955. 311 p.
(Partial differential equations. Tr. from the Russian. Hairs.).
RFT Not in DLC

SO: Monthly List of East European Accessions (DEAL) 10, Vol. 4, no. 2, June 1955, 1121.

PETROVSKIY, I.G.

CHEBYSEV, P.L.; VINOGRADOV, I.M., akademik, redaktor; GEL'FOND, A.O.;
VAVILOV, S.I., akademik, redaktor; PETROVSKIY, I.G., redaktor; BYKOV,
K.M., akademik, redaktor; KAZANSKIY, B.A., akademik, redaktor; GERM-
GENOV, A.V., redaktor; SHMIDT, O.Yu., akademik, redaktor; ANDREYEV,
N.H., akademik, redaktor; SHCHERBAKOV, D.I., akademik, redaktor;
YUDIN, P.F., akademik, redaktor; DELONE, B.N., redaktor; KOSH TOYANTS,
Kh.S., redaktor; SAMARIN, A.M., redaktor; LEBEDEV, D.M., professor,
redaktor; FIGUROVSKIY, N.A., professor, redaktor; KUZNETSOV, I.V.,
kandidat filosofskikh nauk, redaktor; AUZAN, N.P., tekhnicheskii
redaktor.

[Selected works] Izbrannye trudy. Otvetstvennyi redaktor I.M.Vino-
gradov. Redaktor-sostavitel' A.O.Gel'fond. Moskva, Izd-vo Akademii
nauk SSSR, 1955. 926 p. (MLRA R:4)

1. Chlen-korrespondent Akademii nauk SSSR (for Delone, Koshtoyants)
(Mathematics)

USSR/Biology - Biography

FD-1696

PETROVSKIY, I. G.

Card 1/1 : Pub. 129-21/25

Author : Petrovskiy, I. G.; Oparin, A. I. et al.

Title : Obituary of Lev Ivanovich Kursanov

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, Vol. 10, 183-184, Feb 1955

Abstract : Lev Ivanovich Kursanov, Head of the Chair of Lower Plants of the Biological-Soil Faculty, died on 11 December 1954 at the age of 78. Kursanov joined the faculty of the university when he graduated in 1900. His specialty was the study of algae and fungi. His doctor's dissertation on "Morphological and Cytological Research on the Uredineae Group" which he defended in 1915 was very exhaustive and earned him a place among the foremost Russian mycologists. He became head of the Chair of Lower Plants when it was created in 1918 and occupied that position until his death. He worked on phytopathology, mycotic rots of wood, and antibiotics. He was active in the activities of the University. He received three awards from the government.

Institution : Chair of Lower Plants

Submitted : --

PETROVSKIY, I.G., (Moskva); LANDIS, Ye. M., (Moskva).

Number of limit cycles of the equation $\frac{dy}{dx} = \frac{P(x,y)}{Q(x,y)}$, where
P and Q are second-degree polynomials. Mat.sbor. 37 no.2:
209-250 S-O '55. (MLRA 9:1)
(Differential equations)

PETROVSKIY, I.G., akademik, redaktor; NIKOL'SKIY, S.M., professor, redaktor;
~~GUROV, K.P.~~, redaktor; ASTAF'YEVA, tekhnicheskij redaktor.

Certain logical problems in arithmetic. Trudy Mat. inst. 43:3-111
195. (MLRA 8:6)
(Logic, Symbolic and mathematical)

NOVIKOV, P.S.; PETROVSKIY, I.G., akademik, redaktor; NIKOL'SKIY, S.M., professor; GUR'OV, K.P., redaktor; POLYAKOVA, T.V., tekhnicheskiy redaktor.

Algorithmic undecidability of the word identity problem in the theory groups. Trudy Mat. inst. 44:3-140 '55. (MIRA 8:5)
(Groups, Theory of)

PONTRYAGIN, L.S.; PETROVSKIY, I.G., akademik, redaktor; NIKOL'SKIY, S.M., professor, redaktor; GONOV, K.P., redaktor; ALEKSEYEVA, T.V., tekhnicheskiy redaktor.

Smooth manifolds and their application in the theory of homotopies.
Trudy Mat.inst. 45:3-139 '55. (MIRA 8:4)
(Aggregates) (Geometry, Differential)

ALEKSANDROV, P.S.; PETROVSKIY, I.G., akademik; NIKOL'SKIY, S.M., professor

Topological theorems of duality. Part 1. Closed sets. Trudy Mat.
inst. no.48:5-110 '55. (MLRA 8:11)
(Topology)

KHINCHIN, A. Ya.; PETROVSKIY, I. G., akademik, otvetstvennyy redaktor;
NIKOL'SKIY, S. M., professor, zam. otv. redaktora

Mathematical methods in the theory of public service. Trudy Mat.
inst. no. 49:3-122 '55. (MLRA 8:10)
(Operations research) (Probabilities)

PETROVSKIY, I G

USSR/Mathematics

Card 1/1 Pub. 22 - 7/49

Authors : Petrovskiy, I. G., Academician; and Landis, E. M.

Title : About the number of the limiting cycles of the equation $\frac{dy}{dx} = \frac{M(x,y)}{N(x,y)}$ where the M and N are second degree polynomials

Periodical : Dok. AN SSSR 102/1, 29-32, May 1, 1955

Abstract : A proof of a series of theorems is presented leading to the conclusion that the equation

$$\frac{dy}{dx} = \frac{P(x,y)}{Q(x,y)}$$

where the P and Q are second degree polynomials with complex coefficients, may not have more than 3 limiting cycles. One USSR reference (1952).

Institution :

Submitted : March 1, 1955

PETROVSKIY, I.G., akademik; GAL'PERN, S.A., dots., red.

[Equations of mathematical physics; program for the Mechanics-Mathematics Faculty. Major: Mathematics] Programma po uravneniyam matematicheskoi fiziki dlia mekhaniko-matematicheskogo fakul'teta. Spetsial'nost' - matematika. 1956. 1 p. (MIRA 11:3)

1. Moscow. Universitet.

(Mathematical physics--Study and teaching)

NAUMENKO, Ivan Artemovich; PETROVSKIY, Ivan Grigor'yevich; POVOLOTSKIY, G.M., dotsent, kandidat tekhnicheskikh nauk, inzhener-polkovnik, redaktor; KADER, Ya.M., redaktor izdatel'stva; SOROKIN, V.V., tekhnicheskiiy redaktor

[Shock waves in atomic explosions] Udarnaya volna atomnogo vzryva. Moskva, Voen. izd-vo M-va obor. SSSR, 1956. 159 p.

(Shock waves) (Atomic bomb)

(MLRA 10:4)

GILBERT, William; DOVATUR A.I. [translator]; KALASHNIKOV, A.G., redaktor; PETROV-
SKIY, I.G., akademik, redaktor; BYKOV, K.M., akademik, redaktor; KAZAN-
SKIY, B.Y., akademik, redaktor; SHMIDT, O.Yu., akademik, redaktor; AN-
DREYEV, N.N., akademik, redaktor; SHCHERBAKOV, D.I., akademik, redaktor;
YUDIN, P.F., akademik, redaktor; DELONE, B.N., redaktor; KOSHTOYANTS,
Kh.S., redaktor; SAMARIN, A.M., redaktor; LEBEDEV, D.M., professor, re-
daktor; FIGUROVSKIY, N.A., professor, redaktor; KUZNETSOV, I.V., kandi-
dat filosofskikh nauk, redaktor; PETROVA, G.M., redaktor; AL'ZAN, N.P.,
tekhnicheskii redaktor.

[The magnet, magnetic bodies, and the great magnet the earth; a new phy-
siology, demonstrated by many arguments and experiments. Translated from
the Latin by A.I. Dovatur] O magnite, magnitnykh telakh i o bol'shom mag-
nite-zemle; novaya fiziologiya, dokazannaya mnozhestvom argumentov i
opytov. Perevod s latinskogo A.I. Dovatura. Red., stat'ia i kommentarii
A.G. Kalashnikova. Moskva, Izd-vo Akademii nauk SSSR, 1956. 411 p.
(MLRA 9:6)

1. Chlen-korrespondent AN SSSR (for Delone, Koshtoyants, Samarin).
(Magnetism)

BSMEYANOV, A.N.; TOPCHIYEV, A.V.; KURCHATOV, I.V.; SKOBEL'TSYN, D. .;
KAPITSA, P.B.; IOFFE, A.F.; VINOGRADOV, A.P.; KREMBURG, I.G. TACHONOV,
N.S.; FADEYEV, A.A.; FRANK, I.M.; VEKSLER, V.I.; KORNEYCHUK, A.Ye.;
POPOVA, N.V.; LEBEDEVA, Z.A.; VASILEVSKAYA, V.L.; PETROVSKIY, I.G.;
ALEKSANDROV, A.D.; ARTSIMOVICH, L.A.; MESHCHERYAKOV, M.G.

Irene Joliet-Curie: obituary. Vest.AN SSSR 26 no.4:73-72 Ap 1966.
(Joliet-Curie, Irene, 1897-1966) (MIRA 3:7)

OKHOTSIMSKIY, D.Ye.; KONDRASHEVA, I.L.; VLASOVA, Z.P.; KAZAKOVA, R.K.; ~~PETROVSKIY, I.G.~~ akademik, otvetstvennyy redaktor; NIKOL'SKIY, S.M., professor redaktor; GUROV, K.P., redaktor; VANYUSHENKOVA, V.V., tekhnicheskiiy redaktor; MAKUNI, Ye.V., tekhnicheskiiy redaktor.

[Calculation of a point explosion and resistance] Raschet tochechnogo vzryva s uchetom protivodavleniya. Moskva, Izd-vo Akademii nauk SSSR, 1957. 65 p. (Akademiia nauk SSSR, Matematicheskii institut. Trudy, vol. 50) (MLRA 10:3)

(Shock waves)

1. PETROVSKIY, I. G.

STENON, Nikolay [Steno, Nicolaus]; STRATANOVSKIY, G.A. [translator];
BELOUSOV, V.V., redaktor; SHAFRANOVSKIY, I.I., professor, redaktor;
PETROVSKIY, I.G., akademik, redaktor; ANDREYEV, N.N., akademik,
redaktor; BYKOV, K.M., akademik, redaktor; KAZANLAKIY, B.A., akademik,
redaktor; SHCHERBAKOV, D.I., akademik, redaktor; YUDIN, P.F., akade-
mik, redaktor; DELANE, P.M., redaktor; KOSHTOYANTS, Kh.S., redaktor;
SAMARIN, A.M., redaktor; LEBEDEV, D.M., professor, redaktor; FIGUROV-
SKIY, M.A., professor, redaktor; KUZNETSOV, I.V., kandidat filosof-
skikh nauk, redaktor; ZAYCHIK, N.K., redaktor izdatel'stva; SMIRNOVA,
A.V., tekhnicheskij redaktor

[A solid body enclosed by nature within a solid. Translated from
the Latin] O tverdom, estestvenno soderzhashchemsia v tverdom
Perevod G.A.Stratanovskogo. Redaktsiya stat'i i primechania
V.V.Belousova, i I.I.Shafranovskogo. [Leningrad] izd-vo Akad.nauk
SSSR, 1957. 150 p. (MLRA 10:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Belousov, Delane,
Koshtoyants, Samarin)
(Geology)

PETROVSKIY, I.G.; LANDIS, Ye.M.

Number of limit cycles of the differential equation $\frac{dy}{dx} = \frac{P_2(x,y)}{Q_2(x,y)}$
Mat. pros. no.1:213-214 '57.
(Differential equations) (MIRA 11:7)

3-12-6/27

AUTHOR: Petrovskiy, I.G. Academician, Rector of the Moscow State University imeni M.V. Lomonosov

TITLE: Moscow University During the Years of Soviet Rule (Moskovskiy Universitet za gody sovetskoy vlasti)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 12, pp 39 - 49 (USSR)

ABSTRACT: The author describes the development of the Moscow University which celebrated its 185th anniversary in 1940. On this occasion the university was awarded the Lenin Order. The author then gives a description of its activity and development during the post-war years. In 1955 on the occasion of its 200th anniversary the Moscow University was awarded the Labor Order of the Red Banner. In 1956 the Government decided to erect new buildings for humanistic faculties on the Lenin Hills. There are now 12 faculties, an Institute of Oriental Languages, three scientific research institutes and a range of other institutions. There are 207 chairs with 397 professors, 554 dotsents, 1,101 assistants and instructors and 739 scientific collaborators.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

AVAILABLE: Library of Congress

Card 1/1

AUTHOR: LANDIS, ~~Y. M.~~, PETROVSKIY, I. G. (Moscow)

TITLE: On the Number of Limit Cycles of the Equation $\frac{dy}{dx} = \frac{P(x,y)}{Q(x,y)}$, ^{39-2-2,7}

Where P and Q are Polynomials (O chisle predel'nykh tsiklov

uravneniya $\frac{dy}{dx} = \frac{P(x,y)}{Q(x,y)}$, gde P i Q polinomy)

PERIODICAL: Matematicheskiy Sbornik, 1957, Vol.43, Nr.2, pp.149-168 (USSR)

ABSTRACT: The authors consider the equation $\frac{dy}{dx} = \frac{P(x,y)}{Q(x,y)}$ in the complex

and assert that the structure of its solutions in general depends only on the degree of the polynomials. This permits to

take the simple equation $\frac{dy}{dx} = \frac{x^{k-1}(y^k - \epsilon)}{y^{k-1}(x^k - 1)}$ for the counting of

the number of limit cycles. Then it is found that the number of

limit cycles for $n=2k+1$ is not greater than $\frac{1}{2}(6n^3 - 7n^2 - 11n + 16)$

and for $n=2k$ it is not greater than $\frac{1}{2}(6n^3 - 7n^2 + n + 4)$. This method

was already used by the authors in an earlier paper (Doklady

Card 1/2

Akademi Nauk, 1957, Vol.113, pp.748-751) but not so skilful

On the Number of Limit Cycles of the Equation $\frac{dy}{dx} = \frac{P(x,y)}{Q(x,y)}$, 33-2-2, 7
Where P and Q are Polynomials

such that the earlier estimation was essentially worse than the new one (e.g. for $n=2k$: $\frac{1}{2}(9n^3-4n^2-27n+14)$). But the distance of the new estimation from the lower bound $\frac{1}{2}(n^2+5n-14)$ given by Otrokov [Ref.1] is still very great. Two Soviet references are quoted.

SUBMITTED: August 2, 1957
AVAILABLE: Library of Congress

Card 2/2

AUTHOR: LANDIS, E.M., PETROVSKIY, I.I., Member of the Academy PA - 3034
TITLE: On the Number of Limiting Cycles of the Equation $dy/dx = P(x,y)/Q(x,y)$, where P and Q are Polynomials of the n-th Degree. (O chisle predel'nykh ziklov uravneniya $dy/dx = P(x,y)/Q(x,y)$, gde P i Q - mnogo-ohleny stepeni n, Russian)
PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 4, pp 748-751 (U.S.S.R.)
Received: 6 / 1957 Reviewed: 7 / 1957
ABSTRACT: The present paper is intended to estimate the number of these limiting cycles from above. The authors use the same method as was employed for the estimation of the number of limiting cycles of the same equation in which P and Q were second degree polynomials. They investigate the complex equation $dy/dx = P(x,y)/Q(x,y)$; here P and Q denote polynomials of the n-th degree with, on the whole, complex coefficients. The space (x,y) is the complex projective space. The corresponding real fourdimensional space is here denoted by R_4 . Into R_4 a compact metric is in some manner introduced. By the solution $y = \varphi(x)$ of the aforementioned complex equation a complete analytical function (WEIERSTRASS' analytical continuation of an element of the solution) is understood. The curve ϕ of the solution $y = \varphi(x)$ in R_4 is here described as an integral curve. Besides the usual points, also the poles and points of ramification of finite order here belong to . The authors first investigate the real equation:

Card 1/2

PETROVSKIY, I. G. and LANDIS, E. M.

"On the Number of Limiting Cycles of an Equation with a Rational Right Hand Side."

paper submitted at International Congress Mathematicians, Edinburgh, 14 - 21 Aug 58.

ALEKSANDROV, P.S.; PETROVSKIY, I.G., akademik, otv. red.; NIK L'SKIY,
S.M., prof., zam.otv.red.; BEREGAUT, V.G., red.izd-va; POLYAKOVA,
T.B., tekhn.red.

[Topologic dual theorems] Topologicheskie teoremy dvoistvennosti.
Part 2: Nezamknutyie mnozhestva. Moskva, Izd-vo Akad. nauk SSSR.
(Akademiia nauk SSSR. Matematicheskii institut Trudy, vol.54)
(MIRA 13:2)

(Aggregates)

KUDRYAVTSEV, Lev Dmitriyevich; PETROVSKIY, I.G., akademik, otv.red.;
NIKOL'SKIY, S.M., prof., zam.otv.red.; NIKOLAYEVA, L.K., red.
izd-va; GUSEVA, A.P., tekhn.red.

[Direct and inverted imbedding theorems] Priamye i obratnye
teoremy vlozheniya prilozheniya. K resheniyu variatsionnykh
metodam ellipticheskikh uravneniy. Moskva, Izd-vo Akad.nauk
SSSR, 1959. 181 p. (Akademiya nauk SSSR. Matematicheskii institut.
Trudy, vol.55) (MIRA 13:2)
(Functions, Elliptic)

GAUSS, Karl Fridrikh [Gauss, Karl Friedrich] [deceased]; DEM'YANOV, V.B. kand.fiz.-matem.nauk [translator]; VINOGRADOV, I.M., akademik, obshchiy red.; PETROVSKIY, I.G., akademik, red.; KUZNETSOV, I.V., kand.filos.nauk, red.; ANDREYEV, N.N., akademik, red.; KAZANSKIY, B.A., akademik, red.; SHCHERBAKOV, D.I., akademik, red.; YUDIN, P.P., akademik, red.; DELONE, B.N., red.; KOSHTOYANTS, Kh.S., red.; SAMARIN, A.M., red.; LEBEDEV, D.M., prof., red.; FIGUROVSKIY, N.A., prof., red.; RYVKIN, A.Z., red.izd-va; MAKOGONOVA, I.A., tekhn.red.

[Works pertaining to the theory of numbers] Trudy po teorii chisel. Obshchaya red. I.M.Vinogradova. Kommentarii B.N.Delone. Moskva, Izd-vo Akad.nauk SSSR, 1959. 978 p. (MIRA 13:2)

1. Chleny-korrespondenty AN SSSR (for Delone, Koshtoyants, Samarin).

(Numbers, Theory of)

8

16(1)

AUTHORS: Petrovskiy, I.G., and Landis, Ye.M.

SSV/39-48-8-8/9

TITLE: Corrections to the papers " On the Number of Limit Cycles of the Equation $\frac{dy}{dx} = \frac{P(x,y)}{Q(x,y)}$, where P and Q are Polynomials of Second Degree" and "On the Number of Limit Cycles of the Equation $\frac{dy}{dx} = \frac{P(x,y)}{Q(x,y)}$, where P and Q are Polynomials"

PERIODICAL: Matematicheskiy sbornik, 1959, Vol 48, Nr 2, pp 253-255 (USSR)

ABSTRACT: The above mentioned papers are corrected in eight different places. In essential I.M.Gel'fand has found the errors. In the whole paper the notion of homology has to be replaced by homotopy. The final results remain true.

SUBMITTED: March 19, 1959

Card 1/1

POSTNIKOV, A.G.; PETROVSKIY, I.G., akademik, otv.red.; NIKOL'SKIY, S.M.,
prof., zamestitel' otv.red.; NIKOLAYEVA, L.K., red.izd-va; KARPOV,
V.P., tekhn.red.

[Arithmetical modeling of random processes] Arifmeticheskoe
modelirovanie sluchainykh protsessov. Moskva, Izd-vo Akad.nauk
SSSR, 1960. 83 p. (Akademiya nauk SSSR. Matematicheskii institut.
Trudy, vol.57). (MIRA 13:8)
(Mathematical models) (Probabilities)

ZHUKOV, Anatoliy Ivanovich; PETROVSKIY, I.G., akademik, otv.red.;
NIKOL'SKIY, S.M., prof., zam.otvetstvennogo red.; RYVKIN, A.Z.,
red.izd-va; MAKAGONOVA, I.A., tekhn.red.; GUS'KOVA, O.M.,
tekhn.red.

[Use of the characteristics method in the numerical solution of
one dimensional gas dynamics problems] *Primenenie metoda kharak-*
teristik k chislennomu resheniiu odnomernykh zadach gazovoi
dinamiki. Moskva, Izd-vo Akad.nauk SSSR. k960. 149 p. (Akademiia
nauk SSSR. Matematicheskii institut. Trudy, vol. 58) (MIRA 14:3)
(Aerodynamics)

MENDELEYEV, Dmitriy Ivanovich [deceased]; KEDROV, B.M., red.; PETROVSKIY,
I.G., akademik, red.; ANDREYEV, N.N., akademik, red.; BYKOV, A.M.,
~~akademik~~, red. [deceased]; KAZANSKIY, B.A., akademik, red.;
SHMIDT, O.Yu., akademik, red. [deceased]; SHCHERBAKOV, D.I., red.;
YUDIN, P.F., akademik, red.; DELONE, B.N., red.; KOSHTOYANTS,
Kh.S., red.; SAMARIN, A.M., red.; LEBEDEV, D.M., prof., red.;
FIGUROVSKIY, N.A., prof., red.; KUZNETSOV, I.V., kand.filosof.nauk,
red.; TRIFONOV, D.N., red.izd-va; NOVICHKOVA, N.D., tekhn.red.

[Periodic law; supplementary materials] Periodicheskiy zakon;
dopolnitel'nye materialy. Red.i kommentarii B.M.Kedrova. Moskva,
Izd-vo Akad.nauk SSSR, 1960. 711 p. (MIRA 14:2)

1. Chleny-korrespondenty AN SSSR (for Delone, Koshtoyants, Samarin).
(Periodic law)

PASTER, Lui [Pasteur, Louis]; IMSHENETSKIY, A.A., red.; PETROVSKIY, I.G., akademik, red.; ANDRIYEV, N.N., akademik, red.; BYKOV, K.M., akademik, red. [deceased]; KAZANSKIY, B.A., akademik, red.; OPARIN, A.I., akademik, red.; SHMIDT, O.Yu., akademik, red. [deceased]; SHCHERBAKOV, D.I., akademik, red.; YUDIN, P.F., akademik, red.; KOSHTOYANTS, Kh.S., red.; SAMARIN, A.M., red.; MAKSIMOV, A.A., red.; LEBEDEV, D.M., doktor geograf.nauk, red.; FIGUROVSKIY, N.A., doktor khim.nauk, red.; KUZNETSOV, I.V., kand. filosof.nauk, red.; OZNOBISHIN, D.V., kand.istor.nauk, red.; MATVEYENKO, T.A., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Selected works in two volumes] Izbrannye trudy v dvukh tomakh. Red.A.A.Imshenetskogo. Moskva, Izd-vo Akad.nauk SSSR. Vol.1. 1960. 1012 p. (MIRA 13:11)

1. Chleny-korrespondenty AN SSSR (for Imshenetskiy, Koshtoyants, Samarin, Maksimov).

(MICROBIOLOGY)

BERNSHTEYN, S.N.; AKHIEZER, N.I., red.; KOLMOGOROV, A.N., red.;
PETROVSKIY, I.G., red.; RYVKIN, A.Z., red.izd-va; VIDENSKIY,
V.S., red.izd-va; MARKOVICH, S.G., tekhn.red.

[Collected works] Sbornik sochinenii. Moskva, Izd-vo Akad.
nauk SSSR. Vol.3. [Differential equations, calculus of variations
and geometry (1903-1947)] Differentsial'nye uravneniia, variatsion-
noe ischislenie i geometriia (1903-1947). 1960. 438 p.
(MIRA 13:8)

(Differential equations) (Calculus of variations)
(Geometry)

PETROVSKIY, Ivan Georgiyevich. Prilimal uchastnye CHUDOV, L.A.; BAYEVA, A.F.,
red.; KALASHNIKOV, A.S., red., ALFANOV, S.N., tekhn. red.

[Lectures on equations with partial derivatives] Lektsii ob uravne-
niyakh s chastnymi proizvodnymi. Izd. 3., dop. Moskva, Gos. izd-vo
fiziko-matem. lit-ry. 1961. 400 s. (MIRA 12:12)
(Differential equations, Partial)

LOMONOSOV, Mikhail Vasil'yevich; TOPCHIEV, A.V., akad., red.; PETROVSKIY, I.G., akad., red.; ANDREYEV, P.N., akad., red.; BYKOV, K.M., akad., red.; KAZANSKIY, V.A., akad., red.; SEMIDT, O.Yu., akad., red.; SHCHERBAKOV, D.I., akad., red.; YUDIN, P.F., akad., red.; DELONE, B.N., red.; KOSH-TOYANTS, Kh.S., red.; SAMARIN, A.M., red.; LEEDEV, D.M., prof., red.; FIGUROVSKIY, N.A., prof., red.; KUZNETSOV, I.V., kand. filos. nauk, red.; BERKOVICH, D.M., red. izd-va; LOVICHKOVA, N.D., tekhn. red.; KASHINA, P.Ye., tekhn. red.

[Selected works in chemistry and physics] Izbrannye trudy po khimii i fizike. Red. A.V. Topchieva. Stat'ia N.A. Figurovskogo. Primechania G.A. Andreevoi, O.A. Lezhnevoi i N.A. Figurovskogo. Moskva, Izd-vo Akad. nauk SSSR, 1961. 560 p. (MIRA 14:11)

1. Chlen-korrespondent AN SSSR (for Delone, Koshtoyants, Samarin).
(Lomonosov, Mikhail Vasil'evich, 1711-1765)
(Chemistry) (Physics)

VLADIMIROV, V.S.; PETROVSKIY, I.G., akademik, otv.red.; NIKOL'SKIY, S.M.,
prof.zam.otv.red.; NIKOLAYEVA, L.K., red.izd-va; PRUSAKOVA, T.A.,
tekhn.red.; GUS'KOVA, O.M., tekhn.red.

[Mathematical problems in the single-velocity theory of particle
transfer] Matematicheskie zadachi odnoskorostnoi teorii perenosa
chastits. Moskva, Izd-vo Akad.nauk SSSR, 1961. 157 p. (Akademiia
nauk SSSR. Matematicheskii institut. Trudy, vol.61). (MIRA 14:5)
(Mass transfer) (Hilbert space) (Calculus of variations)
(Harmonic analysis)

AKHIEZER, N.I.; PETROVSKIY, I.G.

S.N. Bernshtein's contribution to the theory of differential equations
with partial derivatives. *Usp. mat. nauk* 16 no.2:5-20 Mr-Apr '61.
(MIRA 14:5)

(Differential equations, Partial)

GAYUI, Rene Zhyust [Hauy, Rene-Just]; SHAFRANOVSKIY, I.I., prof.;
 ZABOTKINA, O.S. [translator]; STRATANOVSKIY, G.A. [translator];
 SHUBNIKOV, A.V., akademik, red.; BOKIY, G.B., red.;
 PETROVSKIY, I.G., akademik, red.; ANDREYEV, H.N., akademik, red.;
 KAZANSKIY, B.A., akademik, red.; YUDIN, P.F., akademik, red.;
 DELONE, B.N., red.; SAMARIN, A.M., red.; ZUBOV, V.P., prof., red.;
 LEBEDEV, D.M., prof., red.; FIGUROVSKIY, N.A., prof., red.;
 KUZNETSOV, I.V., kand. filos. nauk, red.; OZROBISHIN, D.V., kand.
 istor. nauk, red.; SUSHKOVA, T.I., red. izd-va; SMIRNOVA, A.V.,
 tekhn. red.

[Structure of crystals; selected works] Struktura kristallov;
 izbrannyye trudy. Sostavlenie, stat'ia i primechania I.I.
 Shafranovskogo. Redaktsiya A.V. Shubnikova i G.B. Bokiya. Mo-
 skva, Izd-vo Akad. nauk SSSR, 1962. 175 p. Translated from the
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1. Chlen-korrespondent Akademii nauk SSSR (for Bokiya, Delone,
 Samarin).

(Crystallography)

FADDEYEV, Dmitriy Konstantinovich; PETROVSKIY, I.G., akademik, otv.red.
 Prinsipali uchastiye: SHAPIRO, A.P., student; TUSHKINA, T.A., studentka;
 BOROVSKIY, Yu.Ye., student; SMIRNOV, G.P. [deceased], student;
 KUTIKOV, L.B., student; IVANOV, F.A.; NIKOL'SKIY, S.M., prof.,
 zamestitel' otv.rd.; SKOPIN, A.I., kand.fiz.-mat.nauk, red.izdaniya;
 BARKOVSKIY, I.V., red.izd-va; BOCHEVER, V.T., tekhn.red.

[Tables of the fundamental unitary representations of Fedorov groups]
 Tablitsy osnovnykh unitarnykh predstavlenii fedorovskikh grupp.
 Moskva, Izv-vo Akad.nauk SSSR, 1961. 173 p. (Akademiia nauk SSSR.
 Matematicheskii institut. Trudy, vol.56) (MIRA 14:4)

1. Leningradskiy gosudarstvennyy universitet, matematiko-mekhanicheskiy fakul'tet (for Shapiro, Tushkina, Borovskiy, Smirnov, Kutikov).
2. Leningradskoye otdeleniye Matematicheskogo instituta im. V.A. Steklova (for Ivanov).
 (Crystallography--Tables, etc.) (Groups, Theory of)

POSPELOV, P.N., akademik; MINTS, A.L., akademik; ALEKSANDROV, A.P.,
akademik; FEDOSEYEV, P.N., akademik; LAVRENT'YEV, M.A., akademik;
BERG, A.I., akademik; PETROVSKIY, I.G., akademik; SIDORENKO, A.V.;
SKRYABIN, G.K., kand.biolog.nauk; KONSTANTINOV, E.P., akademik;
GOLUNSKIY, S.A.; SHUBNIKOV, A.V., akademik; BLOKHINTSEV, D.I.;
DORODNITSYN, A.A., akademik; KEDROV, E.M.; SISAKYAN, N.M., akademik

Discussing the reports. Vest. AN SSSR 31 no.12:49-66 i '61.
(MIRA 14:14)

1. Chleny-korrespondenty AN SSSR (for Sidorenko, Golunskiy,
Blokhintsev, Kedrov).

(Research)

DEZIN, A.A.; PETROVSKIY, I.G., akademik, otv.red.; MAKOGONOV, I.A, tekhn.
red.

[Invariant differential operators and boundary value problems]
Invariantnye differentsial'nye operatory i granichnye zadachi.
Moskva, Izd-vo Akad. nauk SSSR, 1962. 87 p. (Akademiia nauk
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(MIRA 16:2)

(Operators (Mathematics))

(Boundary value problems)

NAUMENKO, I.A. , PETROVSKIY, I.G.

The shock wave of an atomic explosion. New York, U.S. JPRS, 1962.

165 pages, illus., diagrs.,

Translated from the original Russian: Udarmaya Volna Atomnogo Vzryva, Moscow 1956.

ALEKSANDROV, Aleksandr Danilovich; ZALGALLER, Viktor Abramovich;
PETROVSKIY, I.G., akademik, otv.red.; NIKOL'SKIY, S.M., prof.,
zamestitel' otv.red.; BARKOVSKIY, I.V., red.izd-va; ZENDEL',
M.Ye., tekhn.red.

[Two-dimensional manifolds of bounded curvature; fundamentals of
the internal geometry of surfaces] Dvumernye mnogoobraziia
ogranichennoi krivizny; osnovy vnuternnei geometrii poverkhnostei,
Moskva, Izd-vo Akad. nauk SSSR, 1962. 262 p. (Akademiia nauk
SSSR. Matematicheskii institut. Trudy, vol. 63).

(MIRA 16:2)

(Surfaces)

(Curves)

AGRIKOLA, Georgiy [Agricola, Georg]; GAL'MINAS, V.A. [translator];
 DROBINSKIY, A.I. [translator]; SHUKHARDIN, S.V., red.;
 PETROVSKIY, I.G., akademik, red.; ANDREYEV, N.F., akademik,
 red.; KAZANSKIY, B.A., akademik, red.; YULIN, P.P., akademik,
 red.; DELONE, E.N., red.; SARAKIN, A.M., red.; ZUBOV, V.I.,
 prof., red.; LEBEDEV, D.M., prof., red.; FIGULOVSKIY, N.A.,
 prof., red.; KUZNETSOV, I.V., doktor filos. nauk, red.;
 BOKODINA, R.M., red. izd-va; YEFIFANOVA, L.V., tekhn. red.;
 DOMOKHINA, I.N., tekhn. red.

[Mining and metallurgy; in twelve books] O gornom dele i metal-
 lurgii; v dvenadtsati knigakh. red. S.V. Shukhardina, perevod i
 primechania V.A. Gal'minasa i A.I. Drobinskogo. Moskva, Izd-vo
 Akad. nauk SSSR, 1962. 597 p. (MIRA 15:8)

1. Chlen-korrespondent Akademii nauk SSSR (for Delone, Sarakin).
 (Mines and mineral resources)
 (Metallurgy)

MALYSHEV, Aleksandr Vasil'yevich; PETROVSKIY, I.G., akademik, otv. red.;
NIKOL'SKIY, S.M., prof., zam. otv. red.; TRAVIN, N.V., red. izd-va;
KIDRAT'YEVA, M.R., tekhn. red.

[Representation of integers by positive quadratic forms] 6
predstavlenii tselykh chisel polozhitel'nymi kvadratichnymi
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(Akademiya nauk SSSR Matematicheskii institut. Trudy, vol. 5.)
(MIRA 15:6)

(Forms, Quadratic)

PETROVSKIY, Leonid, akademik, Ditch V. i M., prof., ZAYKIN, A., dozent

Leonid Nikolaevich Spetsenskiy; on his sixtieth birthday aiversary. Vest.Mosk. univ. Ser. 1:Mat. mekh. 19 no 2.70-80 Mr-A)
(MIRA 1980)

1. Rektor Moskovskogo universiteta (for Petrovskiy).
Spetsenskiy, Leonid Nikolaevich, 1920-)

FADDEYEV, L.D.; PETROVSKIY, I.G., akademik, otv. red.; NIKOL'SKIY,
S.M., prof., zam. otv. red.; TRAVIN, N.V., red. izd-va;
SMIRNOVA, A.V., tekhn. red.

[Mathematical problems in the quantum theory of scattering
for a system of three particles]. Matematicheskiy voprosy
kvantovoi teorii rasseianiia dlia sistemy trekh chastits.
Moskva, Izd-vo Akad. nauk SSSR, 1963. 119 p. (Akademiia nauk
SSSR, Matematicheskiy institut. Trudy, no.69).

(MIRA 16:4)

(Quantum theory) (Scattering(Physics))

RETR-VEKIN, Ivan de region. ...
MARTEL D., ...

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BERNSHTEYN, Sergey Natanovich. AKHIVEZEN, M. I., red.,
KOLDOGOROV, A. M., red., PETROVSKIY, I. G., red.

[The text of the book is in Russian. Moscow.
Nauka. Volume 1. 1974. (MIRA 17:11)

SHAFAREVICH, I.R.; AVERBUKH, B.G.; VAYNBERG, Yu.R.; ZHIZHCHENKO, A.B.;
MANIN, Yu.I.; MOYSHESON, B.G.; TYURINA, G.N.; TYURIN, A.N.;
PETROVSKII, I.G., akademik, otv. red.; NIKOL'SKIY, S.M., prof.,
zamestitel' otv. red.

[Algebraic surfaces.] Algebraicheskie poverkhnosti. Moskva.
Nauka, 1965. 214 p. (Akademiya nauk SSSR. Matematicheskii
institut. Trudy, vol. 75) (MIRA 18:5)

NEKRASHEVICH, I.G.; PETROVSKIY, I.I.

Temperature dependence of the resistance of point contacts of semi-
conductors with metals. Inzh.-fiz.zhur. no.2:86-89 P '59.
(MIRA 12:3)

1. Belorusskiy gosudarstvennyy universitet imeni V.I.Lenina, g.
Minsk.

(Electric resistance) (Semiconductors)

06393
SOV/170-59-2-11/23

9(6); 28(5)

AUTHORS: Nekrashevich, I.G., Petrovskiy, I.I.

TITLE: On the Temperature Dependence of Resistance of a Point Contact Between a Semiconductor and a Metal

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1959, Nr 2, pp 86-89 (USSR)

ABSTRACT: The authors studied the resistance of a point contact between a metal, steel, and semiconductors, such as pyrite, galenite and silicon crystals. A steel needle with a point whose rounding radius amounted to about 2 microns was pressed to the surface of the crystal. Volt-ampere characteristics of the non-rectifying point contact were obtained for various semiconductors with a measuring device, whose circuit is shown in Figure 1. One static characteristic obtained on a pyrite crystal is shown in Figure 2. It has a sharply defined peak at a current intensity of 20 ma and a falling section for the higher intensities. As Figure 3 shows, where several characteristic curves for different temperatures of the surrounding medium are plotted, the height and position of the peak depends on the temperature of this medium. The family of straight lines in Figure 4 shows the change in the contact resistance depending on the "equilibrium" temperature of the sample at different current intensities.

Card 1/2

PETROVSKIY, I.I. [Platrouski, I.I.]

Study on oscillations produced by a crystal oscillator. Vestsi
AN BSSR. Ser. fiz.-tekh. nav. no.1:5-10 '59. (MIRA 12:6)
(Oscillations)

9 4340

AUTHOR: Petrovskiy, I. I.

S/170/59/002/11/020/024
B014/B014

TITLE: Germanium Diodes With Negative Differential Resistance

PERIODICAL: Inzhenerno-fizicheskii zhurnal, 1959, Vol 2, Nr 11, pp 119-122 (USSR)

ABSTRACT: The experiments under discussion were conducted on germanium crystals, for which purpose the germanium samples had been prepared from diodes of various commercial types. The volt-ampere characteristic of a germanium diode shown in figure 1 for different temperatures was determined on a germanium crystal taken from a DG-Ts21 diode. Figure 2 illustrates the temperature coefficient of the resistance of the germanium diode as dependent on the current in various temperature ranges. The two diagrams indicate that the differential resistance decreases with a rise in temperature. The thermoelectromotive force was measured at various temperatures in order to determine the conductivity type of the diode crystals. For this purpose the crystals were subjected to a temperature gradient. The results show that with increasing temperature gradient generating crystals pass over from n-type conductivity to p-type conductivity (of curves 1, 2, 3 in figure 3). Non-generating crystals retain their n-type conductivity. These results show that the contact temperature has a strong influence.

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Germanium Diodes With Negative Differential Resistance S/170/59/002/11/020/024
B014/B014

Next, the author explains the change in the type of conductivity by means of the conduction theory and describes the dependence of the resistance on temperature and amperage. It is shown that the temperature of the contact between semiconductor and metal plays an important part in the production of a negative differential resistance. There are 3 figures and 1 Soviet reference.

ASSOCIATION: Belorusskiy gosudarstvennyy universitet im. V. I. Lenina, g. Minsk
(Belorussian State University imeni V. I. Lenin, City of Minsk)

Card 2/2

PETROVSKIY, I.I.

Electric properties of oscillating crystal diodes. Inzh.-fiz.
zhur. no.10:75-81 0 '58. (MIRA 11:11)

1. Belorusskiy gosudarstvennyy universitet imeni V.I.Lenina,
g. Minsk.

(Diodes)

PETROVSKIY, I. I.

PETROVSKIY, I. I.: "Investigation of crystal generating diodes".
Minsk, 1955. Belorussian State University imeni V. I. Lenin. (Dissertation
for the Degree of Candidate of PHYSICOMATHEMATICAL Sciences)

SO: Knizhnaya Letopis' No. 61, 10 December 1955

PETROVSKIY, I. N.

Petrovskiy, I. N. and Romanova, V. P. "Use of cutaneous tularemia vaccines for prophylaxis," Ef'fektivnaya i bezopasnaya terapiya (Kost. n/ v gos. nauch.-issled. protivochum. in-t), Vol. VII, 1948, p. 97-110

So: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

PETROVSKIY, I. N.

USSR/Medicine - Dysentery

FD-547

Card 1/2 Pub. 148 - 1954

Author : Mikhaylova, N.D.; Dmitriyev, A.A. ; and Petrovskiy, I. N.

Title : Treatment of chronic dysentery with alcohol vaccine according to Chernokhvostov's method.

Periodical : Zhur. mikrobiol. epid. i immun. 6, 30-31, Jun 54

Abstract : A vaccine prepared from Flexner and Sonne bacteria by the Moscow City Bacteriological Institute was used to treat 50 adults and 27 infants suffering from chronic dysentery. The vaccine was administered in progressively larger doses. After 9-17 injections, 42 of the adults suffering from Flexner dysentery gave negative stool cultures, and were released from the hospital. Three were cured after a second course of injections and four, after a second course plus supplemental treatment with sulfanilamides, bacteriophage and antibiotics. Three patients continued to eliminate the Flexner bacteria. One adult patient with Smitt-Stutzer dysentery did not respond to this treatment. Two Sonne dysentery patients were released after the first course of treatment, a third required a second course. The 27 children were released after one course, but all of them after various intervals, were readmitted. None of the adults suffered relapses. No references are cited.

Revised - Anti-typhoid, Shigella & E. coli by Dr. Petrovskiy, I. N.

PETROVSKIY, I.N.

MYKHAYLOVA, N.D.; DMITRIYEVA, A.A.; PETROVSKIY, I.N.

Skin tests for the identification of typhoid fever bacteria carriers. Zhur.mikrobiol.epid.i immun. no.8:89 Ag '54. (MLRA 7:9)

1. Iz Rostovskogo instituta epidemiologii, mikrobiologii i gigiyeny i kafedry infeksionnykh bolezney Rostovskogo meditsinskogo instituta.
(TYPHOID FEVER)

USSR / General Problems of Pathology. Immunity.

U

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102395.

Author : Petrovskiy, I. N.

Inst : Rostov n/D Medical Institute.

Title : The Influence of Stimulations of the Hypothalamic
Region of the Brain on Immunity Reactions.

Orig Pub: Tr. Otchetn. nauchn. konferentsii (Rostovsk.-n/D.
med. in-t) za 1956 g. Rostov-na-Donu, 1957, 591-592.

Abstract: Stimulation with electric current through electrodes
implanted into various parts of the hypothalamus
induced various fluctuations of the antibody titer
(AT) in those immunized with typhoid and brucellar
antigens. In some cases, the stimulation was ac-
companied by a considerable decrease of AT; in
others, subliminal stimulations induced an increase
of AT. Stronger stimulation probably leads to

Card 1/2

13

NIKOL'SKAYA, T.A.; S. ATR.,
BALABANOV, A.A.; BALABANOV, V.I.; LIPAROVAYA, V.I.; KURDYUMOV,
K.P.; KUPCHENKO, Ye.M.

Q fever in the Krasnodar Province. Zhurnal
no. 29-33 Je 1971. (1-1-1)

institute of epidemiologii, mikrobiologii i
infektsionnykh bolezney, Krasnodarskogo mestnogo
institute of epidemiologii i zdoravookhraneniya. Stal
sanitarno-epidemiologicheskoy stantsii
EVEN, epidemiolog
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PETROVSKIY, I.N.

Problems in the neural regulation of immune reactions. Report No. 1:
Influence of the excitation of various segments of the brain on the
agglutinin titer. Zhur. mikrobiol. epid. i immun. 32 no. 7: 103-108
Je '61. (MIA 15:5)

1. Iz Rostovskogo meditsinskogo instituta i Rostovskogo gosudarstvennogo
universiteta.

(BRAIN)

(AGGLUTININS)

(ANTIGENS AND ANTIBODIES)

PETROVSKIY, I. N.

Problems in the nervous regulation of immunity reactions. Report
No. 2: Influence of experimental neuroses on immunity reactions.
Zhur. mikrobiol., epid. i immun. 32 no.8:63-69 Ag '61.
(MIRA 15:7)

1. Iz Rostovskogo-na-Donu meditsinskogo instituta i Rostovskogo-
na-Donu gosudarstvennogo universiteta.

(IMMUNITY) (NEUROSES)

PETROVSKIY, I. N., Cand Med Sci -- (diss) "Means to collateral discharge in dressings of the inferior vena cava system. (Anatomo-experimental research.)" Simferopol', 1960. 16 pp; (Krymskiy State Medical Inst im I. V. Stalin); 200 copies; price not given; (KL, 17-60, 17.)

LIFSHITS, G.B.; BRUSILOVSKIY, I.A.; PETROVSKIY, I.N. (Simferopol')

Use of Donetskii's rings in salpingostomatoplasty. Eksper.
khir. 4 no.4:46 JI-Ag '59. (MIRA 12:11)
(FALLOPIAN TUBES surg)

BAUM, Filipp Abramovich; STANYUKOVICH, Kirill Petrovich; SHEKHTER, Boris
Isaakovich; PETROVSKIY, I.Ya., red.; KUZNETSOVA, Ye.B., red.;
MURASHOVA, N.Ya., tekhn.red.

[Explosion physics] Fizika vzryva. Moskva, Gos.izd-vo fiziko-
matem.lit-ry, 1959. 800 p. (MIRA 13:4)
(Explosions)

11792-63 BWT(1)/BDS AFFTC TP S/2938/63/000/000/0474/0495
 ACCESSION NR: AT3006096

AUTHORS: Petrovskiy, I. Ya.; Valkov, L. V. 52

TITLE: Causes of incomplete detonation of explosive in shot holes ✓

SOURCE: Teoriya vzry*vyhaty*kh veshchestv, sbornik statey,
 1963, 474-495

TOPIC TAGS: explosive, blasting in coal mines, shot hole,
 detonation front, ammonite, pobedit, permissible
 explosive

ABSTRACT: Authors discuss some of the reasons as to why incomplete detonations occur in charges used in shot holes. They state that one of the basic causes for incomplete detonation is the presence of a radial or side gap between the sticks and sidewalls of the shot hole. The products of the blast, moving along this gap, lead the detonation front and condense the explosive in front of it, which, during the blasting process, can lead to a loss in the detonation capability of the charge. Authors conclude that

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ACCESSION NR: AT3006096

the basic trends in combatting incomplete detonation in charges used in coal mine shot holes should be: (i) elimination of the radial gap between the side walls of the stick and walls of the shot hole, this being accomplished by cutting and mashing the sticks into the shot hole during its packing, and, in the future, by a mechanical method of packing the shot holes; (ii) a better cleaning-out of the shot hole from drilling dust; and (iii) improving the detonation properties of permissible explosives. Tests proved the unsuitability of evaluating the detonation properties of an explosive in a shot hole on the basis of findings obtained through testing for transmission of detonation in open air. Orig. art. has: 6 figures and 6 tables.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 14Jun63

ENCL: 00

SUB CODE: PH

NO REF SQV: 006

OTHER: 003

Card 2/2

BUCHNEV, Valerian Konstantinovich; PETROVSKIY, I.Ya., otv.red.; GRISHAYENKO,
M.I., red.isd-va; KOROVIKOVA, Z.A., tekhn.red.

[Boring and blasting operations] Burovzryvnye raboty. Moskva,
Ugletekhizdat, 1958. 260 p. (MIRA 12:2)
(Boring) (Blasting)

PITROVSKIY, K., prof.

More on cholesterol. 'Nauka i zhizn' 30 no.9:46 S '63.
(MIFA 16:10)

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SPASSKIY, Vladislav Akimovich, polkovnik meditsinskoy sluzhby, professor;
ARKAYEV, Viktor Alekseyevich, podpolkovnik meditsinskoy sluzhby,
kandidat meditsinskikh nauk; PETROVSKIY, K.S., polkovnik meditsin-
skoy sluzhby dotsent, redaktor; BEZDEZHNYKH, P.T., podpolkovnik,
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PETROVSKIY, K.S., polkovnik med. sluzhby, dots.

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(FOOD POISONING, microbiology.

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PETROVSKIY, K.S., dots.

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BARCHENKO, Ivan Petrovich, prof.; CHISTYAKOVA, Aleksandra Matveyevna, dots.; VANKHANEN, Vil'yam Davidovich, kand. med. nauk; KRYZHANOVSKAYA, Yelena Stanislavovna, dots.; Primali ucha-
stiye: PETROVSKIY, K.S., prof.; ALEKSANDROVA, N., nauchn.
sotr., prepodavatel'; BEDULEVICH, T., nauchn. sotr., prepo-
davatel'; TURUK-PCHELINA, Z., nauchn. sotr., prepodavatel';
SHARINA, Ye., nauchn. sotr., prepodavatel'; BURSHTEYN, A.I.,
prof.; SHEVCHENKO, M.G.; STOLMAKOVA, ~~A.I., prof.~~

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1. Zaveduyushchiy kafedroy gigiyeny pitaniya I Moskovskogo
meditsinskogo instituta im. I.M.Sechenova (for Petrovskiy).
2. Kafedra gigiyeny pitaniya I Moskovskogo meditsinskogo
instituta im. I.M.Sechenova (for Aleksandrova, Bedulevich,
Turuk-Pchelina, Sharina).
3. Zaveduyushchiy kafedroy gi-
giieny pitaniya Odesskogo meditsinskogo instituta (for
Burshteyn).
4. Glavnyy inspektor po gigiyene pitaniya Mi-
nisterstva zdravookhraneniya SSSR (for Shevchenko).

1. The first part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order. The names are: [illegible]

PETROVSKIY, K. S.

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PETROVSKIY, K.S., prof.

Some problems of natural prevention of infectious diseases. Klin. med. 47:11:20-25, 1975 (MIRA 1975)

1. Iz kafedry klinicheskoy parazitologii i Mal'nykh zhivotnykh i melitsinskoj instituta imeni I.M.Sechenova.